ELSEVIER SCIENTIFIC
PUBLISHERS IRELAND

Forensic Science International
63 (1993) vii–viii

Forensic
Science
International

Contents

Abstracted in: *Biological Abstracts; Bulletin Signaletique; Cambridge Scientific Abstracts; Chemical Abstracts; Criminology and Penology Abstracts; Current Contents; Excerpta Medica; Index Medicus; National Criminal Justice References Services; Police Science Abstracts; Science Citation Index.*

Special Issue: Hair Analysis as a Diagnostic Tool for Drugs of Abuse Investigation. Proceedings of the 1st International Meeting, Genoa, Italy, 10–11 December, 1992

Foreword ..... ix–x
Mandatory drug testing in the United States
by I. Sunshine (Cleveland, OH) 1–7
Anatomy and physiology of hair
M.R. Harkey (Davis, CA) 9–18
Mechanisms of drug incorporation into hair
by G.L. Henderson (Davis, CA) 19–29
Hair analysis — perspectives and limits of a proposed forensic method of proof: a review
by R.O. Bost (Carrollton, TX) 31–42
Hair analysis as evidence in forensic cases
by M.R. Moeller, P. Fey, H. Sachs (Homburg and Ulm, Germany) 43–53
The occurrence of cocaine, heroin and metabolites in hair of drug abusers
by E.J. Cone, W.D. Darwin, W.-L. Wang (Baltimore, MD) 55–68
Hair analysis: its importance for the diagnosis of poisoning associated with opiate addiction
by C. Staub (Geneva, Switzerland) 69–75
Variability of opiates concentrations in human hair according to their anatomical origin: head, axillary and pubic regions
by P. Mangin, P. Kintz (Strasbourg, France) 77–83
An evaluation of patterns of racial bias in hair assays for cocaine: black and white arrestees compared
by T. Mieczkowski, R. Newel (St. Petersburg, FL) 85–98
Evidence of gestational heroin or nicotine exposure by analysis of fetal hair
by P. Kintz, P. Mangin (Strasbourg, France) 99–104
Drug distribution in the head, axillary and pubic hair of chronic addicts
by C. Offidani, S. Strano Rossi, M. Chiarotti (Rome, Italy) 105–108
Hair analysis for drugs of abuse. VI. The excretion of methoxyphenamine and methamphetamine into beards of human subjects
by Y. Nakahara, K. Takahashi, K. Konuma (Tokyo and Chiba, Japan) 109–119
Sample preparation techniques
by W.A. Baumgartner, V.A. Hill (Santa Monica and Los Angeles, CA) 121–135

Comments on the paper by W.A. Baumgartner and V.A. Hill: sample preparation techniques
by D.A. Kidwell, D.L. Blank (Washington, DC) 137–143
External contamination of hair by cocaine: an issue in forensic interpretation
by D.L. Blank, D.A. Kidwell (Washington, DC) 145–156
Comments on the paper by D.L. Blank and D.A. Kidwell: external contamination of hair by cocaine: an issue in forensic interpretation
by W.A. Baumgartner, V.A. Hill (Santa Monica and Los Angeles, CA) 157–160
Overview on extraction procedures
by M. Chiarotti (Rome, Italy) 161–170
Improved enzymatic hydrolysis of hair
by C. Offidani, S. Strano Rossi, M. Chiarotti (Rome, Italy) 171–174
Analytical requirements, perspectives and limits of immunological methods for drugs in hair
by M. Cassani, V. Spiehler (Milan, Italy; Los Angeles, CA) 175–184
Simultaneous determination of drugs of abuse (opiates, cocaine and amphetamine) in human hair by GC/MS and its application to a methadone treatment program
by M.R. Moeller, P. Fey, R. Wennig (Homburg, Germany; Luxembourg, Luxembourg) 185–206
Comparison of quantitative results of drugs in human hair by GC/MS
by H. Sachs, I. Raff (Ulm, Germany) 207–216
Rapid and highly selective GC/MS/MS detection of heroin and its metabolites in hair
by A. Polettini, A. Groppi, M. Montagna (Pavia, Italy) 217–225
High-sensitivity low-cost methods for determination of cocaine in hair: high-performance liquid chromatography and capillary electrophoresis
by F. Tagliaro, C. Antonioli, S. Moretto, S. Archetti, S. Ghielmi, M. Marigo (Verona and Brescia,Italy) 227–238
Ion trap mass spectrometry, a new tool in the investigation of drugs of abuse in hair
by P. Traldi, D. Favretto, F. Tagliaro (Padova and Verona, Italy)..... 239–252
Hair analysis by infrared microscopy for drugs of abuse
by K.S. Kalasinsky, J. Magluilo, Jr., T. Schaefer (Washington, DC) 253–260
Utilization of hair analysis for therapeutic drug monitoring with a special reference to ofloxacin and to nicotine
by T. Uematsu (Hamamatsu, Japan) 261–268
Cocaine and metabolites in the hair of ancient Peruvian coca leaf chewers
by A.C. Springfield, L.W. Cartmell, A.C. Aufderheide, J. Buikstra, J. Ho (Fort Worth, TX; Ada, OK; Duluth, MN; Chicago, IL) 269–275
Hair analysis as a tool for monitoring and managing patients on methadone maintenance. A discussion
by C. Brewer (London, UK) 277–283
Antibodies to drugs as indicators of chronic drug use. An alternative to toxicological hair analysis
by N.B. Gamaleya (Moscow, Russia) 285–293
Interlaboratory comparison studies on the analysis of hair for drugs of abuse
by M.J. Welch, L.T. Sniegoski, C.C. Allgood (Gaithersburg, MD) 295–303

Letter to the editor
Importance of quality assurance in testing drugs of abuse
by S.D. Ferrara (Padova, Italy) 305–309

Subject index 311–314
Author index 315